

Title (en)  
TELLURIUM-CONTAINING NANOCRYSTALLINE MATERIALS

Title (de)  
NANOKRISTALLINE TELLUR ENTHALTENDE MATERIALIEN

Title (fr)  
TELLURE CONTENANT DES MATERIAUX NANOCRYSTALLINS

Publication  
**EP 1250474 B1 20051026 (EN)**

Application  
**EP 00950729 A 20000726**

Priority  
• US 0020357 W 20000726  
• US 14570899 P 19990726

Abstract (en)  
[origin: WO0107689A3] Tellurium-containing nanocrystallites are produced by injection of a precursor into a hot coordinating solvent, followed by controlled growth and annealing. Nanocrystallites may include CdTe, ZnTe, MgTe, HgTe, or alloys thereof. The nanocrystallites can photoluminesce with quantum efficiencies as high as 70 %.

IPC 1-7  
**C30B 7/00**; H01L 33/00; C07F 9/22; C07F 9/36; C30B 29/60; C01B 19/04; C07F 9/44

IPC 8 full level  
**C01B 19/04** (2006.01); **C01B 19/00** (2006.01); **C07F 9/22** (2006.01); **C07F 9/53** (2006.01); **C09K 11/08** (2006.01); **C09K 11/88** (2006.01); **C30B 7/00** (2006.01); H01L 33/08 (2010.01); H01L 33/28 (2010.01)

CPC (source: EP)  
**B82Y 30/00** (2013.01); **C01B 19/007** (2013.01); **C07F 9/224** (2013.01); **C07F 9/5304** (2013.01); **C30B 7/00** (2013.01); **C30B 29/605** (2013.01); **C01P 2002/72** (2013.01); **C01P 2002/84** (2013.01); **C01P 2004/04** (2013.01); **C01P 2004/52** (2013.01); **C01P 2004/64** (2013.01); **C01P 2004/86** (2013.01); **C01P 2006/60** (2013.01); H01L 33/08 (2013.01); H01L 33/28 (2013.01)

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0107689 A2 20010201**; **WO 0107689 A3 20010927**; AT E307919 T1 20051115; AU 6379100 A 20010213; CA 2374337 A1 20010201; CA 2374337 C 20090414; DE 60023559 D1 20051201; DE 60023559 T2 20060907; EP 1250474 A2 20021023; EP 1250474 B1 20051026; JP 2003505330 A 20030212; JP 2011148797 A 20110804; JP 5165824 B2 20130321; JP 5513421 B2 20140604

DOCDB simple family (application)  
**US 0020357 W 20000726**; AT 00950729 T 20000726; AU 6379100 A 20000726; CA 2374337 A 20000726; DE 60023559 T 20000726; EP 00950729 A 20000726; JP 2001512953 A 20000726; JP 2011019862 A 20110201